

CLAIMS

1. A display device intended to be fitted to a watch movement of the type having a final gear train and an energy source driving this final train, said device comprising:

- 5 - a display disk (24, 26, 28),
- a display gearing (42, 142, 242) of which one moving part (62, 162, 262) carries said disk,

characterized in that it additionally comprises:

- a second energy source, connected mechanically to said gearing, and
10 - operating means (38) for said gearing, designed so as to cause the gearing to be driven by said second energy source when the information for display has to be changed.

2. The device as claimed in claim 1, characterized in that said second energy source is mechanical and in that it also has winding means (30, 67, 68,
15 70, 72) for this energy source.

3. The device as claimed in claim 2, characterized in that said second energy source is a barrel (43, 143, 243).

4. The device as claimed in claim 3, characterized in that it is intended to be fitted to a watch movement of the chronograph type, comprising:

- 20 - chronograph gearing in which one moving part completes one revolution per minute, designed to carry means for displaying the seconds of the measured time (22),

- a clutch designed to connect the chronograph to said gear train or disconnect it therefrom, and to cause the starting and stopping of the
25 measurement of a period of time,

and in that it has drive means (36, 136, 236) controlled by the chronograph gearing and causing the display gearing to be driven by said barrel (43, 143, 243).

5. The device as claimed in claim 4, characterized in that the display gearing is designed so that said disk (24, 26, 28) displays measured times equal to or greater than one minute.

6. The device as claimed in claim 4, characterized in that has a plurality of
5 display disks (24, 26, 28) and a plurality of barrels (43, 143, 243), each barrel driving one disk.

7. The device as claimed in claim 3, characterized in that it also comprises:

- a regulation system (40, 140, 240) regulating the rotary movement of
10 the display gearing, and
- a trigger mechanism (38, 138, 238) operated, at least in a mediated way, by the final gear train, and causing the disk to be driven by said barrel (43, 143, 243), by means of the display gearing.

8. The device as claimed in claim 7, characterized in that the regulation
15 system (40, 140, 240) comprises a flywheel (54, 154, 254).

9. The device as claimed in claim 8, characterized in that the regulation system (40, 140, 240) also has a cam (52c, 152c, 252c) provided with a locking member (52d, 152d, 252d) and rotating in synchronization with said flywheel (54, 154, 254), and in that the trigger mechanism (38, 138, 238)
20 comprises a lever (46, 146, 246) designed so that it can occupy a first position in which it interacts with said locking member to immobilize the regulation system, a second position in which it releases the cam and allows the regulation system to rotate, and a third position in which it bears against the cam until it again interacts with the locking member.

25 10. The device as claimed in claim 1, characterized in that it also comprises:

- a zero resetting mechanism comprising a positioning member (84),
- an index pin (64a, 164a, 264a) positioned on the moving part (62, 161, 262) carrying said disk (24, 26, 28) and interacting with said member to

position the disk, and

- operating means (84, 86, 87) designed so that, when the zero resetting mechanism is activated, said barrel (43, 143, 243) drives the moving part until said index pin interacts with said member for positioning the disk.